Performance Data Sheet

AE4425Z-XN1A

General Information

Model	AE4425Z-XN1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1640	1480	1330	1190	1040	887	722
	Watts	224	230	235	242	247	253	257
	Amps	1.63	1.64	1.66	1.67	1.68	1.70	1.71
	Lb/h	25.4	24.3	23.3	22.3	21.2	20.0	18.6
10	Btu/h	1840	1670	1510	1350	1190	1020	843
	Watts	232	239	246	253	261	267	273
	Amps	1.65	1.67	1.69	1.71	1.72	1.74	1.76
	Lb/h	28.6	27.5	26.5	25.5	24.3	23.1	21.5
15	Btu/h	2060	1880	1700	1530	1350	1170	968
	Watts	239	248	256	265	274	281	288
	Amps	1.67	1.70	1.72	1.74	1.76	1.79	1.81
	Lb/h	32.2	31.1	30.0	29.0	27.8	26.4	24.7
20	Btu/h	2310	2110	1910	1720	1520	1320	1100
	Watts	245	255	266	276	286	295	303
	Amps	1.69	1.72	1.75	1.78	1.80	1.83	1.86
	Lb/h	36.1	35.0	33.9	32.8	31.5	30.0	28.2
25	Btu/h	2580	2350	2140	1920	1710	1480	1240
	Watts	250	262	275	287	298	309	318
	Amps	1.70	1.74	1.78	1.81	1.85	1.88	1.91
	Lb/h	40.5	39.3	38.2	36.9	35.6	34.0	32.1
30	Btu/h	2860	2620	2380	2140	1900	1650	1380
	Watts	254	268	283	297	310	322	333
	Amps	1.72	1.76	1.80	1.84	1.88	1.92	1.96
	Lb/h	45.3	44.1	42.8	41.5	40.0	38.3	36.3
35	Btu/h	3180	2910	2640	2380	2110	1830	1540
	Watts	256	273	289	305	320	334	347
	Amps	1.72	1.78	1.83	1.87	1.92	1.97	2.01
	Lb/h	50.6	49.3	48.0	46.6	44.9	43.1	40.9
40	Btu/h	3510	3220	2930	2630	2340	2030	1700
	Watts	257	276	294	313	330	346	360
	Amps	1.73	1.79	1.85	1.90	1.96	2.01	2.06
	Lb/h	56.4	55.0	53.6	52.1	50.3	48.3	45.9

45	Btu/h	3880	3550	3230	2910	2580	2230	1880
	Watts	255	277	298	319	338	356	373
	Amps	1.72	1.79	1.86	1.92	1.99	2.05	2.11
	Lb/h	62.8	61.4	59.8	58.2	56.3	54.1	51.5
50	Btu/h	4270	3910	3560	3200	2840	2460	2060
	Watts	252	276	300	323	345	366	384
	Amps	1.71	1.79	1.87	1.94	2.01	2.08	2.16
	Lb/h	69.9	68.3	66.6	64.8	62.7	60.3	57.6
55	Btu/h	4690	4300	3910	3510	3110	2700	2270
	Watts	246	274	300	326	350	373	394
	Amps	1.69	1.78	1.87	1.95	2.03	2.12	2.20
	Lb/h	77.6	75.9	74.1	72.1	69.8	67.2	64.2
60	Btu/h	5140	4710	4280	3850	3410	2950	2480
	Watts	238	269	298	327	354	379	402
	Amps	1.66	1.76	1.86	1.96	2.05	2.14	2.23
	Lb/h	86.0	84.1	82.2	80.0	77.6	74.8	71.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.555724E+03	2.547488E+02	1.334178E+00	4.377595E+01
C2	4.484552E+01	-1.220139E+00	-2.030731E-03	3.815774E-01
C3	-4.274372E+01	-1.693717E+00	6.206044E-03	-4.931906E-01
C4	7.395889E-01	-3.114549E-02	-1.036976E-04	7.175427E-03
C5	-6.547246E-02	4.572532E-02	9.811701E-05	3.834285E-03
C6	2.724613E-01	2.001454E-02	-4.718212E-05	3.816997E-03
C7	1.532502E-03	-2.484041E-04	-1.068630E-06	5.600197E-05
C8	-4.993732E-03	3.004208E-04	1.329139E-06	-2.863795E-05
C9	-6.297320E-04	-1.162964E-04	-1.760031E-07	-1.943895E-05
C10	-8.410114E-04	-6.095421E-05	1.430384E-07	-1.230185E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE4425Z-XN1A

General Information

Model	AE4425Z-XN1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-15	Btu/h	1260	1050	825	593
	Watts (Power)	208	222	232	239
	Amps	1.98	2.00	2.02	2.03
	Lb/h	20.2	18.8	17.1	15.1
-10	Btu/h	1570	1310	1050	775
	Watts (Power)	218	235	249	260
	Amps	2.00	2.03	2.05	2.07
	Lb/h	25.3	23.8	21.9	19.7
-6.7	Btu/h	1800	1510	1210	904
	Watts (Power)	223	243	259	273
	Amps	2.01	2.04	2.07	2.10
	Lb/h	29.2	27.5	25.5	23.2
-5	Btu/h	1930	1620	1300	974
	Watts (Power)	225	247	265	280
	Amps	2.02	2.05	2.08	2.12
	Lb/h	31.3	29.6	27.5	25.2
0	Btu/h	2350	1970	1590	1200
	Watts (Power)	230	256	279	299
	Amps	2.03	2.08	2.12	2.17
	Lb/h	38.6	36.6	34.3	31.6
5	Btu/h	2830	2380	1920	1450
	Watts (Power)	231	262	291	316
	Amps	2.04	2.10	2.15	2.22
	Lb/h	47.3	45.0	42.3	39.3
7.2	Btu/h	3070	2580	2080	1570
	Watts (Power)	229	264	295	323
	Amps	2.04	2.10	2.17	2.24
	Lb/h	51.6	49.1	46.3	43.1
10	Btu/h	3390	2850	2300	1730
	Watts (Power)	227	264	299	330
	Amps	2.04	2.11	2.18	2.26
	Lb/h	57.6	54.9	51.8	48.4

15	Btu/h	4020	3380	2720	2060
	Watts (Power)	217	262	302	341
	Amps	2.02	2.11	2.20	2.30
	Lb/h	69.8	66.6	63.1	59.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.345966E+03	1.140507E+02	1.782253E+00	4.198217E+01
C2	1.338714E+02	-2.519284E+00	-3.132207E-03	1.753588E+00
C3	-2.944318E+01	5.057469E+00	1.321819E-02	-4.093822E-02
C4	2.031739E+00	-1.104401E-01	-2.510645E-04	3.248245E-02
C5	-1.450554E+00	1.021219E-01	1.333715E-04	-5.248472E-03
C6	-1.497041E-01	-4.697474E-02	-2.132105E-04	-2.580800E-03
C7	7.568799E-03	-1.182471E-03	-4.022708E-06	2.821655E-04
C8	-2.419948E-02	1.152123E-03	3.992088E-06	-1.343752E-04
C9	9.427895E-05	1.357140E-05	1.399141E-06	-9.160993E-06
C10	7.198630E-04	2.351357E-04	1.670367E-06	6.370259E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE4425Z-XN1A

General Information

Model	AE4425Z-XN1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
5	Btu/h	1330	1210	1100	975	851	723	593
	Watts	203	212	219	226	231	235	239
	Amps	1.97	1.99	2.00	2.01	2.01	2.02	2.03
	Lb/h	20.6	20.0	19.2	18.3	17.3	16.2	15.1
10	Btu/h	1500	1370	1240	1110	974	834	692
	Watts	208	218	226	234	240	245	250
	Amps	1.98	2.00	2.01	2.02	2.03	2.04	2.05
	Lb/h	23.3	22.6	21.8	20.9	19.9	18.8	17.6
15	Btu/h	1690	1550	1400	1260	1110	952	796
	Watts	212	223	233	241	249	256	262
	Amps	1.99	2.01	2.02	2.04	2.05	2.06	2.08
	Lb/h	26.3	25.6	24.7	23.8	22.7	21.5	20.3
20	Btu/h	1890	1740	1580	1410	1250	1080	905
	Watts	215	228	239	249	258	266	273
	Amps	2.00	2.02	2.04	2.05	2.07	2.08	2.10
	Lb/h	29.7	28.9	27.9	26.9	25.8	24.6	23.2
25	Btu/h	2120	1950	1770	1590	1400	1210	1020
	Watts	218	232	245	256	266	275	284
	Amps	2.01	2.03	2.05	2.07	2.09	2.11	2.13
	Lb/h	33.3	32.5	31.5	30.4	29.2	27.9	26.5
30	Btu/h	2360	2170	1970	1770	1560	1350	1140
	Watts	220	235	249	262	274	285	295
	Amps	2.01	2.04	2.06	2.08	2.11	2.13	2.16
	Lb/h	37.4	36.5	35.4	34.2	32.9	31.6	30.1
35	Btu/h	2630	2410	2190	1970	1740	1510	1280
	Watts	220	237	253	267	281	293	305
	Amps	2.02	2.05	2.07	2.10	2.13	2.15	2.19
	Lb/h	41.9	40.9	39.7	38.5	37.1	35.6	34.0
40	Btu/h	2920	2680	2430	2180	1930	1680	1420
	Watts	219	238	255	271	286	301	315
	Amps	2.02	2.05	2.08	2.11	2.14	2.18	2.21
	Lb/h	46.9	45.8	44.5	43.1	41.6	40.1	38.4

45	Btu/h	3230	2960	2690	2420	2140	1850	1570
	Watts	217	238	257	274	291	307	323
	Amps	2.02	2.05	2.09	2.12	2.16	2.20	2.24
	Lb/h	52.4	51.1	49.8	48.3	46.7	45.0	43.1
50	Btu/h	3570	3270	2970	2670	2360	2050	1730
	Watts	213	235	256	276	295	313	330
	Amps	2.01	2.05	2.09	2.13	2.17	2.21	2.26
	Lb/h	58.4	57.0	55.5	53.9	52.2	50.3	48.4
55	Btu/h	3930	3600	3270	2930	2590	2250	1910
	Watts	207	232	255	276	297	317	337
	Amps	2.00	2.05	2.09	2.14	2.18	2.23	2.28
	Lb/h	65.0	63.5	61.9	60.1	58.2	56.2	54.1
60	Btu/h	4310	3950	3590	3220	2850	2470	2100
	Watts	200	226	251	275	298	320	342
	Amps	1.99	2.04	2.09	2.14	2.19	2.24	2.30
	Lb/h	72.2	70.6	68.8	66.9	64.8	62.7	60.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.714702E+03	5.022527E+01	1.481290E+00	1.851197E+01
C2	4.407170E+01	-4.425764E-01	1.430527E-03	4.842579E-01
C3	-2.910468E+00	3.059906E+00	1.230989E-02	5.661658E-02
C4	6.352724E-01	-2.094358E-02	-3.317607E-05	6.118059E-03
C5	-1.831729E-01	1.872685E-02	-1.799897E-05	-4.474211E-05
C6	-5.857187E-02	-1.844339E-02	-1.009785E-04	-8.511374E-04
C7	1.297805E-03	-2.027557E-04	-6.897648E-07	4.838229E-05
C8	-4.149430E-03	1.975520E-04	6.845144E-07	-2.304101E-05
C9	1.616580E-05	2.327057E-06	2.399075E-07	-1.570815E-06
C10	1.234333E-04	4.031820E-05	2.864141E-07	1.092294E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AE4425Z-XN1A

General Information

Model	AE4425Z-XN1A	**Refrigerant**	R-404A
Test Condition	EN12900 ASERCOM	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-15	Btu/h	1540	1270	1010	722
	Watts (Power)	227	238	249	257
	Amps	1.64	1.66	1.69	1.71
	Lb/h	24.7	22.9	21.0	18.6
-10	Btu/h	1910	1600	1280	943
	Watts (Power)	243	258	273	285
	Amps	1.68	1.72	1.76	1.80
	Lb/h	30.8	28.9	26.8	24.1
-6.7	Btu/h	2180	1830	1480	1100
	Watts (Power)	251	270	288	303
	Amps	1.71	1.76	1.81	1.86
	Lb/h	35.4	33.4	31.2	28.2
-5	Btu/h	2340	1960	1590	1180
	Watts (Power)	255	276	296	312
	Amps	1.72	1.78	1.84	1.89
	Lb/h	38.0	35.9	33.6	30.5
0	Btu/h	2830	2390	1930	1440
	Watts (Power)	264	291	317	339
	Amps	1.75	1.83	1.91	1.98
	Lb/h	46.6	44.3	41.6	38.1
5	Btu/h	3400	2870	2320	1730
	Watts (Power)	268	303	335	363
	Amps	1.76	1.87	1.97	2.07
	Lb/h	56.8	54.2	51.1	47.0
7.2	Btu/h	3680	3100	2510	1870
	Watts (Power)	268	307	342	373
	Amps	1.76	1.88	2.00	2.11
	Lb/h	61.9	59.1	55.8	51.4
10	Btu/h	4050	3410	2760	2060
	Watts (Power)	267	310	349	384
	Amps	1.76	1.90	2.03	2.16
	Lb/h	68.9	65.9	62.3	57.6

15	Btu/h	4790	4030	3260	2440
	Watts (Power)	258	310	358	401
	Amps	1.73	1.90	2.06	2.23
	Lb/h	83.2	79.7	75.4	70.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.430666E+03	1.928264E+02	1.421215E+00	5.524346E+01
C2	1.510559E+02	-3.630894E+00	-1.128351E-02	1.902571E+00
C3	-6.549872E+01	1.678731E+00	1.397904E-02	-4.196397E-01
C4	2.355187E+00	-1.470274E-01	-5.305618E-04	3.769805E-02
C5	-1.378212E+00	1.863301E-01	5.570134E-04	2.453857E-03
C6	5.558958E-01	3.383030E-02	-1.266274E-04	6.525273E-03
C7	8.937552E-03	-1.448693E-03	-6.232250E-06	3.266035E-04
C8	-2.912345E-02	1.752054E-03	7.751539E-06	-1.670165E-04
C9	-3.672597E-03	-6.782406E-04	-1.026450E-06	-1.133680E-04
C10	-4.904778E-03	-3.554850E-04	8.341999E-07	-7.174439E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature